

Algebra 1 Semester 1  
Objectives for the District Wide Common Assessment

Algebraic Foundations

- Write an algebraic expression
- Simplify numeric and algebraic expressions using decimals, fractions, absolute value, exponents, and distributive property.
- Evaluate expressions using substitution
- Order fractions
- Solving multistep equations involving fractions, distributive property, and absolute value
- Use integers to solve problems

Measurement

- Convert measurements using unit conversions
- Use the Pythagorean theorem

Solving Inequalities

- Identify the graph of an inequality
- Solve inequalities

Proportional Reasoning

- Solve proportions
- Use proportions to solve problems
- Solve problems involving percents

Functions

- Identify a function
- Evaluate a function

Linear Equations and their graphs

- Write a linear equation based on data
- Identify slope and the y-intercept from the equation of a line
- Identify the slope of a line given a graph
- Find the x-intercept and y-intercept on a graph
- Graph a line given the equation
- Calculate the slope when given two points
- Write the equation of a line given the slope and a point.
- Write the equation of a line in  $y=mx+b$  form.
- Identify variables
- Find missing values of a table given an equation
- Identify the independent variable
- Identify the dependent variable
- Identify what the slope represents
- Graph coordinate points